

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF: U.S. Patent No. 7,672,447

USPTO CONFIRMATION CODE: 4990

APPLICATION NO.: 09/584,796

FILED: June 1, 2000

EXAMINER: Alexander Jamal

GROUP ART UNIT: 2614

FOR: FREQUENCY DOMAIN ECHO CANCELLER

37 CFR 1.322 & 37 CFR 1.323 REQUEST FOR CERTIFICATE OF CORRECTION  
FOR USPTO AND/OR APPLICANT MISTAKE

HONORABLE COMMISSIONER OF PATENTS & TRADEMARKS

SIR:

The following is a request for a certificate of correction in Serial Number 09/584,796, now Patent Number 7,672,447.

A certificate of correction under 35 USC 254 is respectfully requested in the above-identified patent.

The errors were the fault of both the applicant and USPTO and, accordingly, please charge **\$100.00** to our Deposit Account No. 50-1379. In the event that a further fee is required, please charge the amount to the same Deposit Account.

The exact locations where the errors appear in the patent and patent application are as follows:

On Page 2, in Field (56), under “OTHER PUBLICATIONS”, in Column 1, Line 8, delete “Enchede,” and insert - - Enschede - -, therefor.  
(LIST OF REFERENCES CITED BY APPLICANT AND CONSIDERED BY EXAMINER DARED OCTOBER 13, 2009, SHEET 1 OF 1(PAGE 22 OF FW), UNDER “OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT”, PAGES, ETC.), ENTRY 2, LINE 1)

In Fig. 7, Sheet 5 of 8, for Tag “104”, Line 1, delete “ $V_i$ .” and insert - -  $V_i$ , - -, therefor.  
(ORIGINALLY FILED SPECIFICATION, IN THE DRAWINGS DATED JUNE 1, 2000, SHEET 5, FIGURE 7, TAG 104, LINE 1)

In Column 1, Line 43, delete “General” and insert - - Generally - -, therefor.  
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 2, LINE 2)

In Column 2, Line 52, delete “symbols.” and insert - - symbol. - -, therefor.  
(AMENDMENTS TO THE SPECIFICATION DATED MARCH 2, 2004, PAGE 2, LINE 7)

In Column 2, Line 53, after “is” insert - - (L+N) - -.  
(AMENDMENTS TO THE SPECIFICATION DATED MARCH 2, 2004, PAGE 2, LINE 7)

In Column 5, Line 33, delete “of” and insert - - for - -, therefor.  
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 8, LINE 23)

In Column 5, Line 51, in Equation (1), delete “ $X_i = [X_i(0), X_i(1),]$ ,” and insert - -  $X_i = [X_i(0), X_i(1),] - -$ , therefor.  
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 9, LINE 8, EQUATION (1))

In Column 6, Line 2, delete “receiving” and insert - - received - -, therefor.  
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 9, LINE 20)

In Column 6, Line 10, in Equation (4), delete “ $x_i = QX_i$ ” and insert - -  $s_i = QX_i$  - -, therefor.  
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 9, LINE 24, EQUATION (4))

In Column 7, Line 9, delete “ $N \times I$ ” and insert - -  $N \times 1$  - -, therefor.  
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 11, LINE 6)

In Column 9, Line 10, delete “ $E_i = Y_i = \hat{Y}_i$ ” and insert  $E_i = Y_i - \hat{Y}_i$ , therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 13, LINE 16)

In Column 9, Line 57, delete “ $X_{\text{imag},i}$ ” and insert  $X_{\text{imag},i}$ , therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 15, LINE 2)

In Column 9, Line 60, Equation (24), delete “[ $(N/2)$ ]” and insert  $[(N/2)]^T$ , therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 15, LINE 3, EQUATION 24)

In Column 10, Line 25, after “further” insert  $\dots$  defined  $\dots$ .

(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 15, LINE 17)

In Column 10, Line 26, delete “ $N-1$ ” and insert  $L-1$ , therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 15, LINE 17)

In Column 11, Line 42, in Equation (40), delete “ $\hat{Y}_i = V_i X_i + Z_i (X_i - \bar{X}_{i-1})$ ,” and insert  $\hat{Y}_i = \mathbf{V}_i \bullet \mathbf{X}_i + \mathbf{Z}_i (\mathbf{X}_i - \bar{\mathbf{X}}_{i-1})$ , therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 17, LINE 21, EQUATION 40)

In Column 11, Line 63, in Equation (43), delete “ $Z_{i+1} Z_i + \mu E_i (X_i^* - \bar{X}_{i-1}^*)^T$ ,” and insert  $\mathbf{Z}_{i+1} = \mathbf{Z}_i + \mu \mathbf{E}_i (\mathbf{X}_i^* - \bar{\mathbf{X}}_{i-1}^*)^T$ , therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 18, LINE 5, EQUATION (43))

In Column 13, above Equation 47,

insert  $\mathbf{V}_{i+1} = \mathbf{V}_i + \mu \mathbf{E}_i \bullet (\mathbf{X}_{\text{rep},i}^*)^T$  (46)

(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 20, LINE 2, EQUATION (46))

In Column 13, Line 5, Equation (47), delete “ $V_{i+1} = V_{i+1} \mu E_i (X_i^* - \bar{X}_{i-1}^*)^T$ ,” and insert  $\mathbf{Z}_{i+1} = \mathbf{Z}_i + \mu \mathbf{E}_i (\mathbf{X}_i^* - \bar{\mathbf{X}}_{i-1}^*)^T$ , therefor.

(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 20, LINE 3, EQUATION (47))

In Column 13, Line 37, delete “ $\{(V_i \cdot x_i) \mid q\}$ ” and insert - -  $\{(V_i \cdot x_i), q\}$  - - , therefor.  
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 20,  
LINE 20)

In Column 13, Line 51, in Equation (51),  
delete “ $Z_{i+1} = Z_i + \mu E \mathbf{rep}_i (X_i^* \cdot \bar{X}_{i-1}^*)^T$ ” and  
insert - -  $\mathbf{Z}_{i+1} = \mathbf{Z}_i + \mu E \mathbf{rep}_i (\mathbf{X}_i^* - \bar{\mathbf{X}}_{i-1}^*)^T$  - - , therefor.  
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE  
21, LINE 5, EQUATION (51))

In Column 14, Line 43, delete “(29).” and insert - - (39). - - , therefor.  
(ORIGINALLY FILED SPECIFICATION DATED JUNE 1, 2000, PAGE 22,  
LINE 21)

In Column 16, Line 59, in Claim 17, after “remove” insert - - the transformed  
estimate - - .  
(APPEAL BRIEF FILED DATED JANUARY 2, 2008, PAGE A4 (PAGE  
151 OF FW), CLAIM 19, LINES 8-9)

The requested corrections are attached on Form PTO 1050.

Respectfully Submitted

, 2010

---

DATE

/SIDNEY L. WEATHERFORD, Reg#45602/

---

Sidney L. Weatherford  
Registration No. 45602  
Attorney of Record